Wireshark Question

HTTP Protocol

1. Start up your web browser and Wireshark packet sniffer. Capture packets in Wireshark while you visit http://www.nitk.ac.in/ and then in the **Academics** dropdown, Click on **Departments**. Click on the **Computer Science & Engineering department**. Stop Capturing the packets, Inspect the HTTP request and response packets and answer below and answer the following questions:
   1) How do you identify HTTP request and response message?
   2) What is the IP address of your computer and http://www.nitk.ac.in/
   3) What is the status code returned from the server to your browser?
   4) What is there in the Connection header in your First GET request? What does this mean?
   5) What is ETAG? Is there any ETAG header in any of HTTP response message? What does that mean?
   6) Is there any Cache-control header in any of the response messages? What does the max-age directive in the cache control header mean?

2. Start up your web browser and Wireshark packet sniffer. Capture packets in Wireshark while you visit http://cse.nitk.ac.in/. Stop Capturing the packets, Inspect the HTTP request and response packets and answer below and answer the following questions:
   1) Is there any referer Header? If it is there, what does it contain? What does referer header mean?

Socket Programming

1. Write a C program to exchange hello messages between server and client to demonstrate the client/server model where a client should send "Hello Server" to the server, and the server should reply back saying "Hi Client, How are you?".